

TO: Acting Deputy Assistant Secretary for Grants and
Acquisition Management, Office of the Secretary

FROM: Acting Director
Office of Public Health

SUBJECT: FY 2002 Energy Report

I am responding to the September 25 memorandum from Mr. Marc Weisman, Acting Deputy Assistant Secretary for Grants and Acquisition Management, requesting the FY 2002 Energy Report.

These reports are being sent electronically to Mr. Scott Waldman, Department of Health and Human Services Energy Officer, per instructions in your guidance. The reports are organized in the following manner:

- A. OPDIV Annual Energy Report
- B. FY 2002 OPDIV Energy Management Data Report
- C. FY 2002 OPDIV Energy Scorecard
- D. OPDIV Implementation Plan

If you have any questions regarding the reports, please call CAPT Paul S. Fardig, P.E., Office of Environmental Health and Engineering, on (301)443-8027.

Gary J. Hartz
Assistant Surgeon General

cc: IHS/OEHE

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FY 2002 Annual Energy Narrative Report

I. Management and Administration

A. Energy Management Infrastructure

1. **Senior Agency Official:** The senior Agency Official is Paul Fardig, Director, Division of Facilities Operations. This person supervises the Agency's Energy Coordinator.
2. **The Agency Energy Team** consists of 12 Area Offices (Aberdeen, Albuquerque, Alaska, Bemidji, Billings, California, Nashville, Navajo, Oklahoma, Portland, Phoenix, Tucson) and 2 Regional Offices (Engineering Service (ES) in Dallas and Seattle). The 12 Area Offices and 2 Engineering Services Offices each have a designated Energy Coordinator who is supervised by the Area Facility Engineers or ES Directors. This team consists of

area_name	Energy Coordinator
HQE	Adam Scully
Nashville	George Styer
Bemidji	Ken Olson
Aberdeen	Rodney Vyff
Billings	Gary McFarland
Oklahoma City	Ken McKenzie
ES Dallas	Suresh Shah
Phoenix	Eugene Price
Tucson	Bob Drummond
Navajo	Richard Wermers
Albuquerque	Deanne Waconda
California	Kerry Gragg
Portland	Heidi Feigenbaum
ES Seattle	John Rogers
Anchorage	Gary Kuhn

The Area Facility Engineers report to their respective Area chain-of-command, which does not include Paul Fardig, Director, Division of Facilities Operations. For this reason, Paul Fardig and his staff can make recommendations to the Areas but cannot require that the Areas conform to an Agency-wide process or an Agency-wide contract. The Headquarters' role is to provide technical and administrative support, but the day-to-day project management and oversight of the facilities is the responsibility of the Area Facility Engineers. The IHS agency does not have a full time energy coordinator but instead relies on Area Facility Engineers who are responsible for collecting data and managing energy related activities. The Area Facility Engineers work with their respective local facility managers and their Area and ES project officers.

B. Management Tools

1. **Awards:** Describe the Area's use of employee incentive programs to reward exceptional performance in implementing Executive Order 13123.

The following received the DHHS and DOE Energy Awards:

Janice K. Moyer, Service Unit Director and Richard Brisbois, Facility Manager.

Janice Moyer is the Service Unit Director and Richard Brisbois works in maintenance at the IHS David C. Wynecoop Memorial Clinic in Wellpinit, Washington. These two individuals have combined efforts to implement highly successful energy management practices with limited personnel and operational resources. Over the past eight years, their work has resulted in an overall energy consumption reduction per gross square foot of 66 percent in the 25-year old, 12,250 square foot health clinic. These results are further validated by the fact that when compared to data from the Energy Information Association, the clinic uses two to three times less energy than the national average for buildings of similar type and function.

Lieutenant Commander, Dale M. Mossefin, P.E., Consulting Engineer, IHS Portland Area Office. LCDR Dale Mossefin manages the IHS Portland Area Office Energy Conservation Management Program. LCDR Mossefin's efforts have exceeded the Federally mandated 25 percent energy reduction by 2010. In FY 2001, he implemented the following energy conservation projects; a "hands-on" 3-day energy efficiency training seminar in conjunction with Washington State University; an extensive direct digital control project for two IHS health care facilities; a major HVAC equipment renovation to an IHS facility; a large health clinic expansion that incorporated energy and water efficiency technologies; and an HVAC comprehensive audit to another IHS site to investigate alternative designs and improvements. LCDR Mossefin's motto "each dollar saved in energy is another dollar available for IHS health care services," exemplifies his commitment to energy and water efficiency.

The following received the DHHS Energy Award:

Commander Adam T. Scully, P.E., IHS Energy Coordinator. Mr. Scully has tremendously simplified the energy reporting process for IHS energy personnel by developing a state-of-the-art client-server application. All of the required reports, including the Annual Energy Consumption Data, the Status of the Comprehensive Energy Surveys, and the Narrative and Implementation Reports, can be entered and submitted using an easy, point-and-click Windows interface that is a component of the IHS Real Property Database

Albuquerque -- Except for individual awards and recognition, there is no specific energy incentive program to reward exceptional performance in implementing the provisions of Executive Order 13123. The Annual Area Director's Awards Program was used to recognize an individual who was instrumental in improving energy efficiency at the Zuni Service Unit. In addition, Certificates of Appreciation were given to all health facilities staff during the Area Workshop, not only for energy projects but overall performance.

Billings -- There are no awards provided by the Billings Area Office, however, we are looking into the feasibility of using Utility Dollars to purchase equipment such as new drills for those Service Units that show a decrease in energy consumption and use this as an incentive/reward.

Portland -- On-the-spot awards have been provided to Service Unit employees who have implemented and demonstrated successful energy management policies and practice. Personnel are also nominated for national recognition for outstanding contributions in conserving energy (One such nomination was made in FY2001).

- 2. Performance Evaluations: Describe Area's efforts to include successful implementation of the requirements of Executive Order 13123 concerning the position descriptions and performance evaluations of senior energy officials, members of the OPDIV energy team, heads of field offices, and energy managers.**

Headquarters will work with the Areas to encourage the inclusion of energy efficiency measurements in the position descriptions and performance evaluations for all energy coordinators.

Aberdeen -- The Area Office Mechanical Engineer is responsible for energy management activities as stated in his job description and it is part of his annual performance evaluation.

Albuquerque -- Position descriptions and performance evaluations of those implementing the Executive Order do not specifically address energy efficiency, water conservation, or solar and other renewable energy projects. However, such actions are noted in performance evaluations since they are normal to the positions.

Tucson -- Energy conservation elements are included in the position descriptions for facility managers.

3. Training Education: Describe activities undertaken to ensure that all appropriate personnel receive training for energy management requirements. Describe Area outreach programs that include education, training, and promotion of Energy Star® and other energy efficient products for Federal purchase card users. Highlight specific training courses attended by Area personnel.

Alaska -- ANTHC provides energy management and conservation training to staff engineers. ANTHC engineers participate in energy conservation seminars and workshops. Energy conservation elements of HVAC and DDC systems are also covered at these seminars and workshops. Headquarters staff have trained facility managers and service unit staff on energy awareness. The FEMP energy awareness publications and information is channeled to the RHO Facility Managers for energy awareness. On-site energy training is conducted for FM and Staff at the regional hospitals.

Albuquerque -- Energy management topics are included in the agenda during the annual OEHE workshop. Additionally, each service unit has identified their specific training needs and have attended appropriate courses through various vendors.

Billings -- Training is available to all service unit facilities staff for the control and operation of building HVAC systems. The Billings Area utilizes direct digital control for all of its larger facilities. Control system training that incorporates better energy management is provided to facility managers.

Oklahoma City -- In October of 2001, an Area Office engineer attended a Skills Update for Certified Energy Managers where they presented information regarding the latest energy efficient technology. On October 30, 2001, an Area Office engineer attended the mechanical and lighting portions of a live satellite broadcast of ASHRAE Standard 90.1-1999 which is the Energy Standard for Buildings Except Low-Rise Residential. The broadcast was sponsored by DOE, ASHRAE and IES.

Tucson -- Training needs are re-assessed continually and training plans submitted annually. Specific courses included HVAC, air conditioning, appliance, and furnace servicing.

4. Showcase Facilities: Highlight exemplary new or existing facilities that HHS should consider for DOE Federal Energy Saver Showcase Facilities in FY 2003. Describe why the facilities should be considered Showcase Facilities (i.e., discuss the facility design, the improvements made in energy or water efficiency, the use of renewable energy, etc.).

Billings -- The Blackfeet Hospital was recently awarded EPA's 2002 Energy Star Label.

Nashville -- Extensive energy improvement projects have been conducted at the Nashville Area hospitals. Cherokee Hospital now has additional insulation installed on the roof and stone fascia areas of building. HVAC systems have been refurbished to improve efficiency and are controlled by DDC systems. At Choctaw Health Center a new white single-ply membrane roof was installed with six inches of insulation. New double glazed windows with sun screening were also installed. All rooftop mounted A/C units were replaced with highly efficient units.

Oklahoma City -- A new health center is being constructed by the Pawnee Nation that has utilizes a geothermal loop system and exhaust fans with energy recovery coils.

II. Energy Efficiency Performance

A. Energy Reduction Performance:

1. **IHS uses Btu-per-gross-square-foot (Btu/GSF) as a broad indicator of energy efficiency in measuring performance toward the goals for Energy-Intensive facilities and Standard facilities.**

The 2002 reported floor space rose from 6,394,000 in 2001 to 6,477,000 gross square feet and correspondently the energy consumption rose from 1,325,672 to 1,345,441 million Btus. Thus, the energy rate did not change much rising less than 0.2 percent from 207,333 Btu/GSF in 2001 to 207,700 Btu/GSF in 2002. The energy rate has reduced 15 percent compared to the 1990 baseline of 244,378 Btu/GSF (5,964,788 gross square feet, 1,457,661 million Btus).

B. Renewable Energy:

1. **Self-Generated Renewable Energy: Identify/estimate energy use (in BBtu) from electricity self-generated from renewable sources (photovoltaics, wind) and renewable energy thermal projects (solar thermal, geothermal).**

Albuquerque -- The Santa Fe and ACL hospitals both continue to utilize solar energy collection systems.

Nashville -- The Nashville Area hospitals have solar collection systems that reduce heating costs of the facilities. When the systems are fully functional, they reduce energy usage up to 10 percent.

	Consumption Units	Total Annual Energy	Energy Used by Agency*
Electricity from Renewables	kWH	134,741.0	9.6

2. **Purchased Renewable Energy: Identify the renewable (i.e., wind, solar, geothermal, biomass) energy component of power purchases under competitive contract in megawatt-hours.**

No information to report.

C. Petroleum. Identify petroleum-based fuels (fuel oil, LPG/propane) used in buildings in FY1990 and in FY 2002 and the percentage change from the baseline year.

Year	GSF	Oil 1000 Gal	Oil Cost in 1000s	NG 1000 CuFt	NG Cost in 1000s	LPG Prop 1000 Gal	LPG Prop Cost in 1000s
1990	5,964,788	1,201	\$1,243.81	706,075	\$1,757.00	1,444	\$754.55

2002	6,477,805	1,290	\$1,651.88	578,544	\$2,077.85	1,155	\$820.42
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**Percent
Change**

9

7

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-20

D. Water Conservation. Identify/estimate water consumption and cost by OPDIV in FY 2002 and outline any OPDIV-specific issues related to collection of water consumption data.

	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)
Water	Million Gal.	138.0	\$361.0

Bemidji -- water softener units were installed that utilized reduced volume regeneration cycles.

Portland -- The Portland Area Office provides service units with technical support to improve water efficiency.

Tucson -- Amount of water spent maintaining landscaping is decreasing through more efficient use. Replacement of irrigation system with lower usage system will be accomplished when funding becomes available. Amount of landscaping to be maintained will decrease when proposed replacement facilities come on line.

III. Implementation Strategies

A. Life-Cycle Cost Analysis. Outline procedures in place to ensure the use of life-cycle cost analysis in making investment decisions about in products, services, construction, and other projects to lower the Federal Government's costs and to reduce energy and water consumption. Highlight examples where life cycle cost analysis was used in capital budgeting decisions concerning energy efficiency. Report on the successes and challenges of implementing life-cycle cost effective projects. (Under EPACT, energy conservation projects that will pay back investment costs within 10 years must be undertaken.)

Aberdeen -- The ESPC contract with Johnson Controls Inc. included a life cycle cost analysis for energy conservation opportunities at all 17 Aberdeen Area facilities. The contract was implemented at nine locations that were determined to be cost effective for the payback time.

Alaska -- Life Cycle Cost Analysis is required of all energy projects submitted to the AHFAC for funding consideration. Six hospital energy audits were conducted during FY 2001 and will be completed first quarter of FY 2002.

Bemidji -- Life-cycle cost analysis is required for all contract services and for government procurement of products, services, construction, and other projects to lower energy and water consumption.

Billings -- Life-Cycle Cost Analysis is performed on as-need basis with an ROI greater than 1 as a baseline.

Nashville -- Life-Cycle Cost Analysis can determine the priority of energy projects. The shorter the pay back period the more attractive the project becomes. Most projects that we have funded provide pay back within five years.

Oklahoma City -- A study was performed at the Claremore Indian Hospital to determine the mechanical system requirements for the building versus what the current systems can provide. System upgrade options were presented and evaluated. The "best" solution was chosen based on life-cycle analyses. We will be replacing the cooling tower, chillers, and pumps in early FY-2003.

Portland -- Life cycle cost analysis is done on large projects to assure 10-years paybacks are anticipated. For energy conservation projects (less than \$25,000), technologies with proven paybacks (Energy Star products) are used to assure energy efficiency.

Tucson -- Life-cycle cost analysis included in building procurement documents. Energy efficiency and maintenance cost estimates are considered when procuring equipment.

B. Facility Energy Audits: Based on the following IHS Energy Audit Report (see table below), the IHS conducted energy audits on 4,418,000 GSF of Facilities space since 1992, representing 68 percent of total space. In 2002, the IHS conducted audits on 1,009,489 GSF of Facilities space, representing 15 percent of total space.

area	state	Owner	city_town	inst_no	inst_name	Next Energy Audit Year	Last Energy Audit Year	Energy Audit Team	GSF
AB	ND	Govt	BELCOURT	11522	QUENTIN N BURDICK MEMORIAL HOS	2013	1995	SDStateUniv	199,865
AB	SD	Govt	EAGLE BUTTE	13170	PHS Indian Hospital	2002	1982	ROFEC VIII	79,635
AB	SD	Govt	FORT THOMPSON	16180	PHS Indian Health Center	2006	1995	SDStateUniv	35,114
AB	ND	Govt	FORT TOTTEN	11523	PHS Indian Health Center	2010			22,712
AB	ND	Govt	FORT YATES	11524	PHS Indian Hospital	2005	1995	SDStateUniv	93,332
AB	SD	Govt	KYLE	12669	PHS Indian Health Center	2009	1995	SDStateUniv	47,202
AB	SD	Govt	LOWER BRULE	20608	PHS Indian Health Center	2006			19,030
AB	SD	Govt	MCLAUGHLIN	15386	PHS Indian Health Center	2004	1983	ROFEC-DENVER	19,229
AB	ND	Govt	NEW TOWN	11525	PHS Indian Health Center	2008	1995	SDStateUniv	35,861
AB	SD	Govt	PINE RIDGE	11545	PHS Institutional Support Fac		1995	SDStateUniv	298,177
AB	SD	Govt	PINE RIDGE	41235	PHS Indian Hospital	2012			201,705
AB	SD	Govt	RAPID CITY	11546	PHS Indian Hospital	2015	1982	ROFEC VIII	192,935
AB	SD	Govt	RED SCAFFOLD	13509	PHS Indian Health Station		1982	ROFEC VIII	960
AB	SD	Govt	ROSEBUD	41237	PHS Indian Hospital	2014			197,584
AB	SD	Govt	SISSETON	11548	PHS Indian Hospital	2017	1995	SDStateUniv	47,626

AB	SD	Govt	WAGNER	11549	PHS Indian Health Center	2007	1995	SDStateUniv	45,110
AB	SD	Govt	WAKPALA	41236	ABERDEEN AREA YRTC	2011			25,749
AB	SD	Govt	WANBLEE	13508	PHS Indian Health Center	2003	1983	ROFEC VIII	23,839
AB	NE	Govt	WINNEBAGO	11506	PHS Indian Hospital	2016	1997	ES-S contractor: Sys-Tek, P.A.	52,896
AB	SD	Govt	MCLAUGHLIN	03302	DENTAL CLINIC		1995	SDStateUniv	
AK	AK	Govt	ANCHORAGE	37561	PHS Indian Medical Center	2007	2002	NA EMCOR & ANTHC	384,272
AK	AK	Govt	ANIAK	30555	ANIAK HEALTH CTR	1999			1,288
AK	AK	Govt	BARROW	61087	PHS Indian Hospital	2007	2002	NA EMCOR & ANTHC	112,400
AK	AK	Govt	BETHEL	61088	PHS Indian Hospital	2007	2002		261,009
AK	AK	Govt	DILLINGHAM	61093	Kanakanak IHS Hospital	2006	2001	PDC Inc & ANTHC	135,204
AK	AK	Govt	GAMBELL	61090	PHS Indian Health Station	1998			1,048
AK	AK	Govt	KOTZEBUE	41231	ALASKA NATIVE HOSPITAL	2005	2000	RSA Eng. & ANTHC	82,411
AK	AK	Govt	KOTZEBUE	61094	Kotzebue Older Qtrs		1980	ROFEC-X, CON	70,887
AK	AK	Govt	MT EDGECUMBE (SITKA)	61092	PHS Indian Hospital	2007	2002	PDC, Inc. & ANTHC	212,715
AK	AK	Govt	NOORVIK	30554	PHS Indian Health Station	2005			884
AK	AK	Govt	SAVOONGA	61096	PHS Indian Health Station	1998			884
AK	AK	Govt	SELAWIK	30064	PHS Indian Health Station	2005			884
AK	AK	Tribe	FORT YUKON	AK007	YUKON FLATS HEALTH CTR	1998			5,920
AK	AK	Tribe	NOME	AK017	NORTON SOUND REGIONAL HOSPITAL	2007	2000		78,245
AQ	NM	Govt	ALBUQUERQUE	11508	PHS Indian Hospital	2004	1981	A/E Contractor	78,868
AQ	NM	Govt	LAGUNA	11982	PHS Indian Health Station	2007	1997	A/E Contractor	6,628
AQ	NM	Govt	MESCALERO	11514	PHS Indian Hospital	2007	1997	A/E Contractor	40,808
AQ	NM	Govt	SAN FIDEL	33115	PHS Indian Hospital	2007	1997	A/E Contractor	111,615
AQ	NM	Govt	SAN FIDEL	37562	NEW SUNRISE REG TREATMENT CTR	2007	1997	A/E Contractor	15,224
AQ	NM	Govt	SANTA FE	11516	PHS Indian Hospital	2007	1997	A/E Contractor	103,114
AQ	NM	Govt	TAOS PUEBLO	41228	PHS Indian Health Center	2007	1997	A/E Contractor	19,981

AQ	NM	Govt	ZUNI	11520	PHS Indian Hospital	2007	1997	A/E Contractor	106,900
AQ	NM	Tribe	COCHITI PUEBLO	AQ044	COCHITI HEALTH STATION		1997		638
AQ	NM	Tribe	SANTA CLARA PUEBLO	AQ036	SANTA CLARA CHR STATION		1997		586
BE	MN	Govt	CASS LAKE	11494	PHS Indian Hospital	1997	1994	Martell&Asso	57,874
BE	MN	Govt	NAYTAHWAUSH	11496	PHS Indian Health Center	1998			6,145
BE	MN	Govt	PONEMAH	12664	PHS Indian Health Center	1999	1994	Martell&Asso	6,492
BE	MN	Govt	PONSFORD	11497	PHS Indian Health Center	1998			3,110
BE	MN	Govt	RED LAKE	11498	CHIEF LEADING FEATHER HOSPITAL	1999	1994	Martell&Asso	82,902
BE	MN	Govt	WHITE EARTH	11499	PHS Institutional Support Fac	1998			62,704
BI	WY	Govt	ARAPAHOE	16181	PHS Indian Health Center	2003			17,407
BI	MT	Govt	BROWNING	11501	PHS Indian Hospital	2008	2001	DOE	260,060
BI	MT	Govt	CROW AGENCY	11502	PHS Indian Hospital	2003	1982	ROFEC	164,353
BI	WY	Govt	FORT WASHAKIE	11556	PHS Institutional Support Fac	2003	1994	Eng Services	31,489
BI	MT	Govt	HARLEM	11503	PHS Indian Hospital-FT BELKNAP	2004			99,539
BI	MT	Govt	HAYS	12665	PHS Indian Health Center	2004			30,979
BI	MT	Govt	HEART BUTTE	16175	PHS Indian Health Center	2005	1982	ROFEC	9,002
BI	MT	Govt	LAME DEER	11504	PHS Institutional Support Fac	2005	1982	ROFEC VIII	115,308
BI	MT	Govt	LODGE GRASS	37556	Quarters Compound	2003	1994	Eng Services	13,616
BI	MT	Govt	POPLAR	11505	PHS Institutional Support Fac	2004			23,472
BI	MT	Govt	PRYOR	14673	PHS Indian Health Center	2003	1982	ROFEC	19,597
BI	MT	Govt	ROCKY BOYS	12679	PHS Institutional Support Fac	2005			13,441
BI	MT	Govt	WOLF POINT	20146	PHS Indian Health Center	2004			20,610
BI	MT	Govt	LODGE GRASS	03215	IHS HEALTH CLINIC & LAND	2000	1994	Eng Services	
BI	MT	Tribe	POPLAR	BIFP1	TRIBAL HEALTH CENTER		1983	ROFEC VIII	28,643
NS	MS	Govt	CARTHAGE	32061	PHS Indian Health Station	2002			2,440
NS	NC	Govt	CHEROKEE	11521	PHS Indian Hospital	2002	1986	Garratech	93,116

NS	NC	Govt	CHEROKEE	41222	NASHVILLE AREA YRTC	2002			13,331
NS	NC	Govt	CHEROKEE	41223	NASHVILLE AREA ADMINISTRATION	2002			2,400
NS	MS	Govt	PHILADELPHIA	11500	PHS Institutional Support Fac	2002			6,572
NS	MS	Govt	PHILADELPHIA	32070	PHS Indian Hospital	2002	1986	Energy Services	58,048
NV	AZ	Govt	CHINLE	11468	PHS Indian Hospital	1999	1979	HEMSLEY LEE	381,590
NV	NM	Govt	CROWNPOINT PUEB PINT	11511	PHS Indian Hospital	1997			210,919
NV	NM	Govt	CROWNPOINT PUEB PINT	11980	PHS Indian Health Station	1997			5,205
NV	AZ	Govt	DENNEHOTSO	15381	PHS Indian Health Station		1983	ROFEC IX	1,262
NV	NM	Govt	FORT WINGATE	20399	PHS Indian Health Center	1999			7,656
NV	NM	Govt	GALLUP	11969	PHS Indian Medical Center	1998			264,743
NV	AZ	Govt	GREASEWOOD	20393	PHS Indian Health Station		1979	ROFEC IX	2,526
NV	AZ	Govt	HOTEVILLA DINNEBITO	19718	PHS Indian Health Station		1979	HEMSLEY LEE	1,262
NV	NM	Govt	HUERFANO (NAGEEZI)	35775	PHS Indian Health Center	1999			37,306
NV	AZ	Govt	INSCRIPTION HOUSE	35774	PHS Indian Health Center	1999			53,005
NV	AZ	Govt	KAYENTA	11974	PHS Indian Health Center	1999	1979	HEMSLEY LEE	84,819
NV	AZ	Govt	MANY FARMS ROUGH ROCK	16171	PHS Indian Health Center	1999	1979	HEMSLEY LEE	29,436
NV	AZ	Govt	PINON	11976	PHS Indian Health Station	1999	1979	HEMSLEY LEE	6,737
NV	NM	Govt	SHIPROCK	11517	PHS Institutional Support Fac	1999			142,389
NV	AZ	Govt	TSAILE	37554	PHS Indian Health Center	1999			57,543
NV	AZ	Govt	TUBA CITY	11483	PHS Indian Hospital	1998			532,377
NV	AZ	Govt	WINDOW ROCK	11485	PHS Institutional Support Fac		1983	ROFEC IX	50,321
NV	AZ	Govt	WINSLOW	11486	PHS Indian Health Center	2000			48,982
OK	OK	Govt	ANADARKO	37552	PHS Indian Health Center	2003	1996	2003 Audit from a DOE SAVEnergy vendor	20,000
OK	OK	Govt	CLAREMORE	11528	PHS Indian Hospital	2003	1980	ROFEC IV	109,727
OK	OK	Govt	CLINTON	11529	PHS Indian Hospital	2004	1985	FKW, Inc A&E	41,077
OK	KS	Govt	LAWRENCE	11493	PHS Indian School Health Ctr	2004			16,992

OK	OK	Govt	LAWTON	11533	PHS Indian Hospital	2003	1995	2003 Audit from a DOE SAVEnergy vendor	90,313
OK	OK	Govt	PAWNEE	11534	PHS Indian Health Center		1996	OK Energy An	28,137
OK	OK	Govt	TAHLEQUAH	11537	PHS Institutional Support Fac	2003			9,410
OK	OK	Govt	TAHLEQUAH	37553	W W HASTING HOSPITAL	2003	1995	OK Energy An	147,831
OK	OK	Govt	TALIHINA	11536	PHS Institutional Support Fac	1997	1985	CONSULTANT	157,730
OK	OK	Govt	ADA	03352	CARL ALBERT INDIAN HOSPITAL		1985	FKW, Inc A&E	2,690
OK	OK	Govt	PAWHUSKA	03054	IHS INDIAN HEALTH CENTER		1985	FKW, Inc A&E	
PH	AZ	Govt	CIBECUE	33113	PHS Indian Health Center		1983	ROFEC IX	13,100
PH	UT	Govt	FORT DUCHESNE	11550	PHS Indian Health Center	2001	2001	EME GROUP	28,616
PH	AZ	Govt	LAVEEN	12676	PHS Indian Health Center	2006			2,900
PH	NV	Govt	MCDERMITT	33114	PHS Indian Health Center		1983	ROFEC IX	2,590
PH	NV	Govt	OWYHEE	11507	PHS Indian Hospital	2001	2001	EME GROUP	87,674
PH	AZ	Govt	PARKER	11472	PHS Indian Hospital	2007	1982	ROFEC IX	130,029
PH	AZ	Govt	PEACH SPRINGS	11975	PHS Indian Health Center	2007			23,346
PH	AZ	Govt	PHOENIX	11473	PHS Indian Medical Center	2001	2001	EME GROUP	271,641
PH	AZ	Govt	SACATON	11475	PHS Indian Hospital	2006			145,020
PH	AZ	Govt	SACATON	41216	GILA RIVER YRTC	2006			39,561
PH	AZ	Govt	SAN CARLOS	11477	PHS Indian Hospital	2001	2001	EME GROUP	92,963
PH	AZ	Govt	SUPAI CANYON	37565	PHS Indian Health Station	2007			5,744
PH	AZ	Govt	WHITERIVER	11484	PHS Indian Hospital	2001	2001	EME GROUP	247,830
PH	CA	Govt	WINTERHAVEN	11488	PHS Indian Hospital	2005	1982	ROFEC IX	21,766
PO	WA	Govt	BELLINGHAM	37567	PHS Indian Health Center		1992	Contractor	792
PO	OR	Govt	CHEMAWA (Salem)	11540	PHS Indian Health Center	2003	1992	ES-S	23,124
PO	ID	Govt	FORT HALL	11491	PHS Indian Health Center	2003	1994	ES-S	31,076
PO	ID	Govt	LAPWAI	20944	PHS Indian Health Center		1997	ES-S	10,168
PO	WA	Govt	NEAH BAY	30067	PHS Indian Health Center	2003	1996	ES-S	22,809

PO	WA	Govt	NESPELEM	11551	PHS Indian Health Center	2006	1997	ES-S	24,410
PO	WA	Govt	SPOKANE	41217	HEALING LODGE OF THE SEVEN NAT	2005	1995	ES	31,000
PO	WA	Govt	TACOMA	35776	PHS Indian Health Center	2002	1992	ES-S	91,676
PO	WA	Govt	TAHOLAH	20611	PHS Indian Health Center		1992	ES-S	10,883
PO	WA	Govt	TOPPENISH	19712	PHS Indian Health Center	2004	1994	ES-S	53,452
PO	WA	Govt	TULALIP	37569	TULALIP DENTAL CLINIC	2003	1993	Bldg Manufacturer	1,960
PO	OR	Govt	WARM SPRINGS	11542	PHS Indian Health Center	2007	1997	ES-S	12,058
PO	WA	Govt	WELLPINIT	11553	PHS Indian Health Center	2010	2000	ES-S, New Const in 2000	26,024
PO	OR	Govt	WARM SPRINGS	03306	IHS IND HEALTH CENTER	2007	1997		
PO	WA	Tribe	AUBURN	37566	MUCKLESHOOT IHS DENTAL CLINIC	2003	1993	Bldg Manufacturer	480
PO	WA	Tribe	AUBURN	PO030	MUCKLESHOOT TRIBAL HEALTH CTR	2050			45,332
PO	WA	Tribe	BELLINGHAM	PO300	LUMMI BUSINESS COUNCIL	2004	1994		17,431
PO	OR	Tribe	CHILOQUIN	41124	CHILOQUIN IHS DENTAL CLINIC		1992	Bldg Manufacturer	1,800
PO	OR	Tribe	CHILOQUIN	PO16A	CHILOQUIN TRIBAL HEALTH CENTER	2050			19,760
PO	OR	Tribe	COOS BAY	PO230	COQUILLE TRIBAL HEALTH CENTER	2050			15,079
PO	WA	Tribe	ELMA	PO08A	SQUAXIN ISLAND - ELMA GRP HOME	2050			13,441
PO	WA	Tribe	EVERSON	PO140	NOOKSACK TRIBAL HEALTH CENTER	2050			10,813
PO	ID	Tribe	FORT HALL	PO460	SHOSHONE-BANNOCK A/SA CENTER	2050			22,006
PO	OR	Tribe	GRANDE RONDE	PO120	GRAND RONDE HEALTH CENTER	2050			30,552
PO	WA	Tribe	INCHELIUM	PO18A	COLVILLE TRIBAL HCTR-INCHELIUM	2050			26,534
PO	WA	Tribe	KINGSTON	PO050	PORT GAMBLE HEALTH CENTER	2050			15,039
PO	OR	Tribe	KLAMATH FALLS	PO160	KLAMATH FALLS HEALTH ADMIN	2050			12,794
PO	WA	Tribe	LA CONNER	PO370	SWINOMISH INDIAN SENATE	2050			10,899
PO	ID	Tribe	LAPWAI	PO320	NEZ PERCE A/SA CENTER	2007	1997		25,382

PO	WA	Tribe	MARYSVILLE	PO470	TULALIP TRIBAL HEALTH CENTER	2050			44,269
PO	OR	Tribe	PENDLETON	PO380	UMATILLA TRIBAL HEALTH CENTER	2050			26,948
PO	ID	Tribe	PLUMMER	PO190	BENEWAH TRIBAL HEALTH CENTER	2050			64,333
PO	WA	Tribe	QUEETS	20610	PHS Indian Health Station	0		Bldg TX to 0 Tribe 2000	2,204
PO	OR	Tribe	SALEM	PO430	NANITCH SAHALLIE	2050			18,723
PO	OR	Tribe	SILETZ	PO130	SILETZ TRIBAL HEALTH CLINIC	2050			21,498
PO	WA	Tribe	TACOMA	PO450	PUYALLUP TRIBAL HEALTH CENTER	2012	2002	Tacoma Light and Power	39,093
PO	WA	Tribe	TAHOLAH	PO330	QUINALT MENTAL HEALTH CENTER	2050			28,869
PO	OR	Tribe	WARM SPRINGS	PO220	WARM SPRINGS TRIBAL A/SA CTR	2050			11,314
TU	AZ	Govt	SAN XAVIER	11479	PHS Tucson Area Office	2004	1982	ROFEC IX	54,764
TU	AZ	Govt	SELLS SANTA ROSA	11478	PHS Indian Health Center	2004	1982	ROFEC IX	3,733
TU	AZ	Govt	SELLS SANTA ROSA	11482	PHS Indian Hospital	2004	1991	Harrington	150,761

C. Financing Mechanisms. Provide narrative information related to the use of Energy-Savings Performance Contracts (ESPCs) and Utility Energy Services Contracts (UESCs).

Aberdeen -- The Aberdeen Area and Engineering Services-Seattle negotiated an ESPC with Johnson Controls Inc. in July 2001. The started in October 2001 with a 15 year contract period.

Albuquerque -- The Area reviewed the possibility of implementing an ESPC project for several service units. The outcome was unsuccessful. Reports from the ESPC Contractor determined that an undertaking would not be beneficial to the company and the government due to remoteness, size of facilities, utilities, etc.

Bemidji -- ESPCs were considered, but viewed as too costly. The investment to savings ratio was not adequate. It was doubtful if some projects would result in sufficient savings to pay the contractors demanded payments.

Billings -- ESPCs and UESCs are not available or are not feasible at our isolated locations.

Oklahoma City -- Use of the DOE Super ESPC contract by the OKC Area I.H.S. and the Cherokee Nation of Oklahoma gained renewed interest in FY02.

Tucson -- Funding for all energy conservation work is currently from M&I or M&M funds.

D. Energy Star® and Other Energy-Efficient Products. Describe steps taken to promote the purchase of Energy Star® products and/or products that are in the upper 25 percent of energy efficiency as designated by FEMP. Note whether energy efficient criteria have been incorporated into all guide specifications and product specifications developed for new construction and renovation. Also note whether such criteria have been incorporated into product specification language.

Alaska -- Information is disseminated to AHFAC and service unit staff relative to energy efficient products.

Albuquerque -- Energy efficiency and cost savings are considered by personnel recommending and specifying products for procurement. Information on products is continuously forwarded to the project engineers and a record of these products is kept updated and available in the area HF library.

Bemidji -- Energy efficiency is a routine determinant of product choices.

Billings -- All designs provided by the Billings Area Facilities Management staff use MASTERSPEC for specification writing. MASTERSPEC is updated quarterly with the latest energy efficient products.

Phoenix -- With all new projects, procurement of Energy Star and other energy efficient products are incorporated into specifications.

Portland -- The Portland Area Indian Health Service Guidelines establishes model operations and maintenance purchasing procedures for increased energy efficiency with the service units.

Tucson -- The use of Energy Star products are considered if feasible under project or renovation funding limitations.

E. Energy Star® Buildings. Report the number and percentage of buildings that have met the Energy Star® Building criteria and have officially been designated Energy Star® Buildings. (Buildings must rank in the top 25 percent in energy efficiency relative to comparable commercial and Federal buildings to be eligible for the Energy Star® Buildings designation. See www.epa.gov/buildings/label.)

Albuquerque -- A recent benchmarking of the area hospitals utilizing the designated EPA performance rating tool shows that the Albuquerque Indian Hospital is eligible to apply for an Energy Star Building Label. Utility data was entered for five area hospitals and one health center. Further data will be input onto the website for the Albuquerque Indian Hospital and an application will be submitted for consideration. The facility had an initial score of 85. This same facility was recognized as a showcase facility for the new geothermal system that was installed several years ago.

Billings -- The Billings Area currently has three hospitals within EPA's Energy Star Label Database. The Blackfeet Hospital is the only facility ranked high enough at a 76 to obtain the Energy Star Label. That is 33 percent of the Billings Area applicable buildings currently meeting the Energy Star Building criteria.

Portland -- Energy Star has not yet defined criteria for health care facilities. Therefore, there is no information to report at this time.

F. Sustainable Building Design. Report whether sustainable building design principles have been incorporated into the siting, design, and construction of new facilities. (See www.wbdg.org for a description of sustainable building design principles.)

Albuquerque -- All new construction incorporates energy efficient materials, equipment, and construction.

Bemidji -- Building design contracts are required to follow sustainable building design principles.

Nashville -- The Nashville Area does not plan to construct any new government owned facilities. Any new facility construction in the Nashville Area is limited to construction by Title I and III Tribes. Assistance is offered for design through the Engineering Services office in Dallas. The design is review by both the Area staff and the ES Dallas staff. Design review services have been used by Tribes in the past but design services have not.

Navajo -- The Health Facilities Planning Manual is used for all renovation and new facilities construction. Energy efficiency is incorporated into the design as is the use of energy efficient products.

Portland -- New facility construction and remodeling will use new practices and products for energy efficiency and water conservation.

Tucson -- Currently only replacement facilities being investigated. The replacement buildings will have more efficient lighting and environmental systems.

G. Energy Efficiency in Lease Provisions. Describe how energy and water efficiency are considered when OPDIVs enter into new leases or renegotiate/extend existing leases (e.g., preference for buildings with sustainable design and development, preference for certified Energy Star® Buildings, etc.).

Albuquerque -- The Albuquerque Area has nearly 540,000 sq. ft. of space, 3% of which is leased space. Leased facilities are typically small Health Clinics or Health Stations at the various pueblos. These are typically inclusive of existing buildings which are used for a variety of functions besides health care. When any of these facilities are replaced or new leases are requested, more energy efficient designs are incorporated into the new facilities.

Nashville -- Local GSA office incorporates these requirements if a relocation occurs.

H. Energy-Intensive Facility Efficiency Improvements. Highlight activities undertaken to explore efficiency opportunities in energy-intensive facilities. This may include activity in the following areas: steam systems, boiler operation, air compressor systems, industrial processes, fuel switching, cogeneration, and other efficiency and renewable energy technologies.

Aberdeen -- New DDC control systems were installed at six locations to allow computer controlled heating and cooling systems.

Alaska -- The Alaska Area has conducting Energy Audits at six of the Area Hospitals. The results will precipitate in energy projects to be accomplished through our normal project cycle; the funding committee AHFAC meets twice yearly to consider projects. Projects for BBAHCs Kakanak Hospital have already been approved and are awaiting funding with FY 2002 dollars. The energy consumption for the Alaska Area has increased slightly in 2002 by approximately 15,000 MMBTUs and due to the increased cost for electric, fuel oil, natural gas and waste heat the overall energy cost went up by approximately \$260,000 this year; reflecting a 6% increase in the cost of energy.

Bemidji -- Boilers were converted from fuel oil to natural gas. Cast iron boilers were replaced with energy efficient staged boiler systems. Lamps and ballasts were replaced with lower energy use models. DDCs

were installed and air treatment was regulated. Variable speed HVAC units were installation that used digital controls.

Billings -- Automated control valves are being installed for each of the four boilers and both chillers at the Lame Deer Health Center to reduce gas and electrical consumption. The Ft. Belknap Hospital and the Hays Health Center are currently having their automated building control systems reprogrammed to optimize the use of outside air.

Navajo -- In current renovation projects boilers have been replaced with energy efficient boilers, cooling towers have been replaced with energy efficient cooling towers that require less energy at start up. Flat plate heat exchanges have been installed.

Oklahoma City -- A study was performed in FY02 at the W.W. Hastings Indian Hospital in Tahlequah to determine the adequacy of both the mechanical and electrical systems. Based on the report, decisions will be made, and priorities set, to upgrade/replace the equipment as required.

Tucson -- A new EMCS system was installed at Sells Hospital. It replaced an outdated and nonfunctioning system.

I. Highly Efficient Systems. Describe new construction and/or retrofit projects for which combined cooling, heating, and power systems were installed. Report whether local natural resources were surveyed to optimize use of available biomass, geothermal, or other naturally occurring energy sources.

Alaska -- A ground water cooling project is currently in construction at the Alaska Native Medical Center in Anchorage (ANMC) and is anticipated to complete in FY03. The energy savings is anticipated to reflect in an approximate \$50,000 annual savings to the ANMC.

Albuquerque -- Renovation continues at the Albuquerque Hospital to replace the old boiler/chiller system with a geothermal ground source heat pump loop system. The new system is presently utilized in the areas where renovation has been completed. A new scheduling system is under implementation. The chiller has also been connected to a cooling coil to pre-cool the area which has already reduced the heat pump cycling time. The Mescalero Hospital targeted energy efficiency by replacing 100% of the existing lighting system with more efficient T-8 lamps and electronic ballasts. The Zuni hospital replaced the boiler burners with an appropriate propane gas burner. The boilers had been using butane burners. The mismatch was discovered after the burners could not be adjusted to the proper efficiency. Gas usage has since been monitored to determine savings and improved efficiency. A new roof project is under design for the Zuni hospital that will replace the existing R7 roofing with an R30 system.

Billings -- Quarters at Lame Deer are being converted from electrical heat to propane gas. Phase I & II are complete and Phase III is scheduled for 2003.

Phoenix -- Install VFDs on chiller water pumps. Install chiller optimization software and control at Phoenix Indian Medical Center.

J. Off-Grid Generation. Describe the installation of new solar hot water, solar electric, solar outdoor lighting, small wind turbines, fuel cells, and other off-grid alternatives.

Bemidji -- Installation of off-grid power generation at White Earth Health Center was proposed for 2003.

Oklahoma City -- Info on off-grid solar outdoor lighting that is available from GSA was e-mailed to facility managers for their consideration.

K. Electrical Load Reduction Measures. Describe your plans for electrical load reduction that will be taken during power emergencies to cut electricity consumption its buildings and facilities.

Albuquerque -- Each service unit has emergency load reduction plans for their facilities. All facilities have emergency generators. The facility managers have designated equipment and areas that maintain power during emergency situations.

Phoenix -- The area office will alert all service units within the area when energy reduction is needed. The service units will load the emergency generators, adjust thermostats, shut down all unnecessary and nonessential equipments, turn off lights, etc.

Portland -- Upon notification of a power emergency. The Portland Area Office will alert all Federal IHS Facilities within the Portland Area. The facilities will adjust building temperatures, turn off lights, and shutting down other nonessential equipment.

Tucson -- During power emergencies, all non-essential personnel will be dismissed and power consumption in affected buildings greatly reduced. The critical facilities will remain operational but with temperature thermostats adjusted to reduce energy.

Attachment A

FY-2002 OPDIV Energy Management Data Report

FY 2002 ENERGY MANAGEMENT DATA REPORT

OPDIV: Indian Health Service

Prepared by: Adam T. Scully, P.E.

Date: 14-Nov-02

Phone: 301.443.4572

PART 1: ENERGY CONSUMPTION AND COST DATA

1-1. Standard Buildings/Facilities

Energy Type	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)	Unit Cost (\$)	Site-Delivered Btu (Million)	Est. Source Btu (Million)
Electricity	kWh	0.0	\$0.0	#DIV/0! /kWh	0.0	0.0
Fuel Oil	Thou. Gal.	0.0	\$0.0	#DIV/0! /gallon	0.0	0.0
Natural Gas	Thou. Cubic Ft.	0.0	\$0.0	#DIV/0! /Thou Cu Ft	0.0	0.0
LPG/Propane	Thou. Gal.	0.0	\$0.0	#DIV/0! /gallon	0.0	0.0
Coal	S. Ton	0.0	\$0.0	#DIV/0! /S. Ton	0.0	0.0
Purch. Steam	BBtu	0.0	\$0.0	#DIV/0! /MMBtu	0.0	0.0
Other	BBtu	0.0	\$0.0	#DIV/0! /MMBtu	0.0	0.0
		Total Costs:	\$0.0	Total:	0.0	0.0
Standard Buildings/Facilities (Thou. Gross Square Feet)		0.0		Btu/GSF:	#DIV/0!	#DIV/0!

1-2. Industrial, Laboratory, Research, and Other Energy-Intensive Facilities

Energy Type	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)	Unit Cost (\$)	Site-Delivered Btu (Million)	Est. Source Btu (Million)
Electricity	kWh	134,741,039.0	\$9,631.0	0.071477852 /kWh	459,736.4	1,394,030.8
Fuel Oil	Thou. Gal.	1,290.0	\$1,652.0	\$1.28 /gallon	178,923.0	178,923.0
Natural Gas	Thou. Cubic Ft.	578,544.0	\$2,078.0	\$3.59 /Thou Cu Ft	596,479.0	596,479.0
LPG/Propane	Thou. Gal.	1,155.0	\$820.0	\$0.71 /gallon	110,303.0	110,303.0
Coal	S. Ton	0.0	\$0.0	\$0.00 /S. Ton	0.0	0.0
Purch. Steam	BBtu	0.0	\$0.0	\$0.00 /MMBtu	0.0	0.0
Other	BBtu	0.0	\$0.0	\$0.00 /MMBtu	0.0	0.0
		Total Costs:	\$14,181.0	Total:	1,345,441.4	2,279,735.8
Energy-Intensive Facilities (Thou. Gross Square Feet)		6,477.8		Btu/GSF:	207,700	351,930

1-3. Exempt Facilities

Energy Type	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)	Unit Cost (\$)	Site-Delivered Btu (Million)	Est. Source Btu (Million)
Electricity	kWh	0.0	\$0.0	#DIV/0! /kWh	0.0	0.0
Fuel Oil	Thou. Gal.	0.0	\$0.0	#DIV/0! /gallon	0.0	0.0
Natural Gas	Thou. Cubic Ft.	0.0	\$0.0	#DIV/0! /Thou Cu Ft	0.0	0.0
LPG/Propane	Thou. Gal.	0.0	\$0.0	#DIV/0! /gallon	0.0	0.0
Coal	S. Ton	0.0	\$0.0	#DIV/0! /S. Ton	0.0	0.0
Purch. Steam	BBtu	0.0	\$0.0	#DIV/0! /MMBtu	0.0	0.0
Other	BBtu	0.0	\$0.0	#DIV/0! /MMBtu	0.0	0.0
		Total Costs:	\$0.0	Total:	0.0	0.0
Exempt Facilities (Thou. Gross Square Feet)		0.0		Btu/GSF:	#DIV/0!	#DIV/0!

1-4. Tactical Vehicles and Other Equipment

	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)	Unit Cost (\$)	Btu (Million)	Est. Carbon Emissions (Metric Tons)
Auto Gasoline	Thou. Gal.	0.0	\$0.0	#DIV/0! /gallon	0.0	0
Diesel-Distillate	Thou. Gal.	0.0	\$0.0	#DIV/0! /gallon	0.0	0
LPG/Propane	Thou. Gal.	0.0	\$0.0	#DIV/0! /gallon	0.0	0
Aviation Gasoline	Thou. Gal.	0.0	\$0.0	#DIV/0! /gallon	0.0	0
Jet Fuel	Thou. Gal.	0.0	\$0.0	#DIV/0! /gallon	0.0	0
Navy Special	Thou. Gal.	0.0	\$0.0	#DIV/0! /gallon	0.0	0
Other	Thou. Gal.	0.0	\$0.0	#DIV/0! /MMBtu	0.0	
Total Costs			\$0.0		0.0	0

1-5. WATER CONSUMPTION, COST AND EFFICIENCY MEASURES

	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)
Water	Million Gal.	138.0	\$361.0
Best Management Practice Implementation Tracking Data			
Number of facilities* in OPDIV inventory			174
Number of facilities with completed water management plans			0
Number of facilities with at least four (4) BMPs fully implemented			0
*number in the OPDIV inventory, can be buildings, bases, or campuses			

1-6. RENEWABLE GREEN ENERGY PURCHASES

(Only include renewable energy purchases developed or contracted after 1990)

	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)
Electricity from Renewables	kWH	0.0	0.0
Natural Gas from Landfill/Biomass	MMBtu	0.0	\$0.0
Renewable Thermal Energy	MMBtu	0.0	\$0.0
Other Renewable Energy_____*			

*For other renewable energy that does not fit any category, please fill in the type, units used, annual consumption and cost, and include any additional information in your narrative submission. For example, biodiesel used in non-transportation applications. (Renewable fuels used for transportation will be collected through GSA's Fleet Management reporting process.)

1-7. SELF-GENERATED RENEWABLE ENERGY INSTALLED AFTER 1990

	Consumption Units	Total Annual Energy	Energy Used by Agency*
Electricity from Renewables	kWH	134,741.0	9.6
Natural Gas from Landfill/Biomass	MMBtu	0.0	0.0
Renewable Thermal Energy**	MMBtu	0.0	0.0
Other Renewable Energy_____***		0.0	0.0

*Energy used by OPDIV equals total annual generation unless a project sells a portion of the energy it produces to another agency or the private sector. It can equal zero in the case of non-Federal energy projects developed on Federal land.

**Examples are geothermal, solar thermal, and geothermal heat pumps, and the thermal portion of combined heat and power projects. Thermal energy from geothermal heat pumps should be based on energy savings compared to conventional alternatives.

***For other renewable energy that does not fit any category, fill in the type, units used, annual consumption and cost, and include any additional information in your narrative submission. For example energy displaced by daylighting technology or passive solar design.

PART 2: ENERGY EFFICIENCY IMPROVEMENTS**2-1. DIRECT AGENCY OBLIGATIONS**

	FY 2002		Projected FY 2003	
	(MMBTU)	(Thou. \$)	(MMBTU)	(Thou. \$)
Direct obligations for facility energy efficiency improvements, including facility surveys/audits		\$1,017.0		\$1,000.0
Estimated annual savings anticipated from obligations	15,524.0	\$260.0	15,000.0	\$200.0

2-2. ENERGY SAVINGS PERFORMANCE CONTRACTS (ESPC)

	Annual savings (MMBTU)	(number/Thou. \$)
Number of ESPC Task/Delivery Orders awarded in fiscal year & annual energy (MMBTU) savings.	23,374.0	1/1900
Investment value of ESPC Task/Delivery Orders awarded in fiscal year.		\$1,900.0
Amount privately financed under ESPC Task/Delivery Orders awarded in fiscal year.		\$0.0
Cumulative guaranteed cost savings of ESPCs awarded in fiscal year relative to the baseline spending.		\$0.0
Total contract award value of ESPCs awarded in fiscal year (sum of contractor payments for debt repayment, M&V, and other negotiated performance period services).		\$381.0
Total payments made to all ESP contractors in fiscal year.		\$381.0

2-3. UTILITY ENERGY SERVICES CONTRACTS (UESC)

	Annual savings (MMBTU)	(number/Thou. \$)
Number of UESC Task/Delivery Orders awarded in fiscal year & annual energy (MMBTU) savings.	0.0	0
Investment value of UESC Task/Delivery Orders awarded in fiscal year.		\$0.0
Amount privately financed under UESC Task/Delivery Orders awarded in fiscal year.		\$0.0
Cumulative cost savings of UESCs awarded in fiscal year relative to the baseline spending.		\$0.0
Total contract award value of UESCs awarded in fiscal year (sum of payments for debt repayment and other negotiated performance period services).		\$0.0
Total payments made to all UESC contractors in fiscal year.		\$0.0

2-4. UTILITY INCENTIVES (REBATES)

	Annual savings (MMBTU)	(Thou. \$)
Incentives received and estimated energy savings	0.0	\$0.0
Funds spent in order to receive incentives		\$0.0

2-5. TRAINING

	(number)	(Thou. \$)
Number of personnel trained/Expenditure	31.0	\$25.7

Est. Carbon Emissions (Metric Tons)
0
0
0
0
0
0
0
0
0

Est. Carbon Emissions (Metric Tons)
21,212,239
3,570
8,631
1,874
0
0
21,226,313

[illegible]

Attachment B

FY-2002 OPDIV Energy Scorecard

FY 2002 Federal Agency Energy Scorecard

Department/Agency Name	Contact Name and Phone
Indian Health Service	Adam T. Scully, P.E.
Name of Senior Energy Official	Signature of Senior Energy Official
Paul S. Fardig, P.E.	

Did your agency . . .	Yes	No	Anticipated Submittal Date
Submit its FY 2002 energy report to OMB and DOE by January 1, 2003 (Sec. 303)?	Y		Nov 18, 2002
Submit a FY 2003 Implementation Plan by January 1, 2003 (Sec. 302)?	Y		Nov 18, 2002
Did your agency . . .	Yes	No	Comments
Implement or continue to use new renewable energy projects at Federal installations or facilitate the siting of renewable generation on Federal land in FY 2002 (Sec. 204)? ¹ (Refer to Table 1-6 on the Energy Management Data Report)		N	If yes, how many projects and how much energy generated? (Specify unit: MWH or MMBtu) Solar _____ Wind _____ Thermal ² _____ Biomass _____ Other RE _____
Purchase energy generated from new renewable energy sources in FY 2002 (Sec. 204)? ¹		N	If yes, how much: _____ MWH or _____ MMBtu
Invest direct FY 2002 appropriations in projects contributing to the goals of the Order (Sec. 301)?	Y		If yes, how much: <u>\$1,017,000</u>
Specifically request funding necessary to achieve the goals of the Order in its FY 2004 budget request to OMB (Sec. 301)?		N	If yes, how much: \$ _____
Perform energy audits of 10% of its facility space during the fiscal year (Sec. 402)?	Y		What percentage of facility space was audited during the FY? 15% How much facility space has been audited since 1992? 68%
Issue to private-sector energy service companies (ESCOs) any energy savings performance contract (ESPC) task orders (Sec. 403(a))? (Refer to Table 2-2 on the Energy Management Data Report)	Y		How many? <u>1</u> Annual savings (MMBtu): <u>23,374</u> Total investment value ³ : <u>\$1,900,000</u> Cumulative guaranteed cost savings: <u>\$381,000</u> Contracts award value: <u>\$381,000</u>
Issue any utility energy services contract (UESC) task orders (Sec. 403(a))? (Refer to Table 2-3 on the Energy Management Data Report)		N	How many? _____ Annual savings (MMBtu): _____ Total investment value ³ : \$ _____ Cumulative cost savings: \$ _____

¹ "New" renewable energy means sources developed after 1990.

² Examples are geothermal, solar thermal, and geothermal heat pumps. Thermal energy from geothermal heat pumps should be determined as follows: Thermal energy = Total geothermal heat transferred – electrical energy used.

³ Investment value includes design, materials, labor, overhead, and profit but excludes contractor's financing costs and government's administration costs. Using investment value allows comparison with other traditional execution methods such as appropriated and working capital funded projects.

			Contracts award value: \$ _____
Did your agency . . .	Yes	No	Comments
Incorporate energy efficiency requirements into relevant acquisitions (Sec. 403(b)(3))?	Y		
Adopt and apply the sustainable design principles (e.g., Whole Building Design Guide, Leadership in Energy and Environmental Design) to the siting, design, and construction of new facilities or major (budget line item) renovations begun in FY 2002(Sec. 403(d))?	Y		Number of new building design/construction projects in FY 2002: <u>1</u> Number of these projects that incorporated sustainable design principles: <u>5</u>
Provide training to appropriate personnel ⁴ on energy management (Sec. 406(d))?	Y		Number of appropriate personnel trained: <u>31</u> Total number of appropriate personnel: <u>250</u>
Implement any additional management tools (Sec. 406)?	Y		Check all that apply: Awards: <u>3</u> Performance Evaluations: _____ Showcase Facilities: _____ Number of Showcase: _____ Facilities designated in fiscal year: _____
Establish Water Management Plans and implement at least 4 Best Management Practices in at least 5% of agency facilities?		N	Number of facilities with Water Management Plans: _____

NOTE: Provide additional information if a “no” reply is used for any of the questions above.

Please enter data from annual energy report pertinent to performance toward the goals of Executive Order 13123	Base Year	Previous Year (2001)	Current Year (2002)	% Change (Current vs. Base)
Site Energy Efficiency Improvement Goals (Sec. 202). 1985 Base Year	Btu/Ft ²	Btu/Ft ²	Btu/Ft ²	%
Source Energy Use (Sec. 206). 1985 Base Year	BBtu	BBtu	BBtu	%
Industrial/Energy Intensive Facilities Goals (Sec. 203). 1990 Base Year	148,416 Btu/unit	207,333 Btu/unit	207,700 Btu/unit	-15 %
Water Conservation Goal (Sec. 207). 2000 Base Year	MGal	N/A	138 MGal	
Renewable Energy (Sec. 204). Energy used from self-generation and RE power purchases	N/A	BBtu	BBtu	N/A

Abbreviation Key: Btu/Ft² = British thermal units per gross square foot
 Btu/unit = British thermal units per unit of productivity (or gross square foot when such a unit is inappropriate or unavailable)
 MGal = Million gallons
 MMBtu = Million British Thermal Units
 BBtu = Billion British Thermal Units
 RE = Renewable energy
 N/A = Not applicable

⁴ Appropriate personnel include the agency energy management team as well as Federal employees and on-site contractors who are energy or facility managers, operations and maintenance workers, design personnel, procurement and budget staff, and legal counsel.

Attachment C

Industrial and Laboratory Facilities Inventory

area	state	x	city_town	inst_no	inst_name	Next Energy Audit Year	Last Energy Audit Year	Energy Audit Team	GSF
AB	ND	Govt	BELCOURT	11522	QUENTIN N BURDICK	2013	1995	SDStateUniv	199,865
AB	SD	Govt	EAGLE BUTTE	13170	PHS Indian Hospital	2002	1982	ROFEC VIII	79,635
AB	SD	Govt	FORT THOMPSON	16180	PHS Indian Health Center	2006	1995	SDStateUniv	35,114
AB	ND	Govt	FORT TOTTEN	11523	PHS Indian Health Center	2010			22,712
AB	ND	Govt	FORT YATES	11524	PHS Indian Hospital	2005	1995	SDStateUniv	93,332
AB	SD	Govt	KYLE	12669	PHS Indian Health Center	2009	1995	SDStateUniv	47,202
AB	SD	Govt	LOWER BRULE	20608	PHS Indian Health Center	2006			19,030
AB	SD	Govt	MCLAUGHLIN	15386	PHS Indian Health Center	2004	1983	ROFEC- DENVER	19,229
AB	ND	Govt	NEW TOWN	11525	PHS Indian Health Center	2008	1995	SDStateUniv	35,861
AB	SD	Govt	PINE RIDGE	11545	PHS Institutional Support Fac		1995	SDStateUniv	298,177
AB	SD	Govt	PINE RIDGE	41235	PHS Indian Hospital	2012			201,705
AB	SD	Govt	RAPID CITY	11546	PHS Indian Hospital	2015	1982	ROFEC VIII	192,935
AB	SD	Govt	RED SCAFFOLD	13509	PHS Indian Health Station		1982	ROFEC VIII	960
AB	SD	Govt	ROSEBUD	41237	PHS Indian Hospital	2014			197,584
AB	SD	Govt	SISSETON	11548	PHS Indian Hospital	2017	1995	SDStateUniv	47,626
AB	SD	Govt	WAGNER	11549	PHS Indian Health Center	2007	1995	SDStateUniv	45,110
AB	SD	Govt	WAKPALA	41236	ABERDEEN AREA YRTC	2011			25,749
AB	SD	Govt	WANBLEE	13508	PHS Indian Health Center	2003	1983	ROFEC VIII	23,839
AB	NE	Govt	WINNEBAGO	11506	PHS Indian Hospital	2016	1997	ES-S contractor: Sys-Tek, P.A.	52,896
AB	SD	Govt	MCLAUGHLIN	03302	DENTAL CLINIC		1995	SDStateUniv	
AK	AK	Govt	ANCHORAGE	37561	PHS Indian Medical Center	2007	2002	NA EMCOR & ANTHC	384,272
AK	AK	Govt	ANIAK	30555	ANIAK HEALTH CTR	1999			1,288
AK	AK	Govt	BARROW	61087	PHS Indian Hospital	2007	2002	NA EMCOR & ANTHC	112,400

AK	AK	Govt	BETHEL	61088	PHS Indian Hospital	2007	2002		261,009
AK	AK	Govt	DILLINGHAM	61093	Kanakanak IHS Hospital	2006	2001	PDC Inc & ANTHC	135,204
AK	AK	Govt	GAMBELL	61090	PHS Indian Health Station	1998			1,048
AK	AK	Govt	KOTZEBUE	41231	ALASKA NATIVE HOSPITAL	2005	2000	RSA Eng. & ANTHC	82,411
AK	AK	Govt	KOTZEBUE	61094	Kotzebue Older Qtrs		1980	ROFEC-X, CON	70,887
AK	AK	Govt	MT EDGE CUMBE	61092	PHS Indian Hospital	2007	2002	PDC, Inc. & ANTHC	212,715
AK	AK	Govt	NOORVIK	30554	PHS Indian Health Station	2005			884
AK	AK	Govt	SAVOONGA	61096	PHS Indian Health Station	1998			884
AK	AK	Govt	SELAWIK	30064	PHS Indian Health Station	2005			884
AK	AK	Tribe	FORT YUKON	AK007	YUKON FLATS HEALTH CTR	1998			5,920
AK	AK	Tribe	NOME	AK017	NORTON SOUND REGIONAL	2007	2000		78,245
AQ	NM	Govt	ALBUQUERQUE	11508	PHS Indian Hospital	2004	1981	A/E Contractor	78,868
AQ	NM	Govt	LAGUNA	11982	PHS Indian Health Station	2007	1997	A/E Contractor	6,628
AQ	NM	Govt	MESCALERO	11514	PHS Indian Hospital	2007	1997	A/E Contractor	40,808
AQ	NM	Govt	SAN FIDEL	33115	PHS Indian Hospital	2007	1997	A/E Contractor	111,615
AQ	NM	Govt	SAN FIDEL	37562	NEW SUNRISE REG TREATMENT	2007	1997	A/E Contractor	15,224
AQ	NM	Govt	SANTA FE	11516	PHS Indian Hospital	2007	1997	A/E Contractor	103,114
AQ	NM	Govt	TAOS PUEBLO	41228	PHS Indian Health Center	2007	1997	A/E Contractor	19,981
AQ	NM	Govt	ZUNI	11520	PHS Indian Hospital	2007	1997	A/E Contractor	106,900
AQ	NM	Tribe	COCHITI PUEBLO	AQ044	COCHITI HEALTH STATION		1997		638
AQ	NM	Tribe	SANTA CLARA PUEBLO	AQ036	SANTA CLARA CHR STATION		1997		586
BE	MN	Govt	CASS LAKE	11494	PHS Indian Hospital	1997	1994	Martell&Asso	57,874
BE	MN	Govt	NAYTAHWAUS H	11496	PHS Indian Health Center	1998			6,145
BE	MN	Govt	PONEMAH	12664	PHS Indian Health Center	1999	1994	Martell&Asso	6,492
BE	MN	Govt	PONSFORD	11497	PHS Indian Health Center	1998			3,110

BE	MN	Govt	RED LAKE	11498	CHIEF LEADING FEATHER	1999	1994	Martell&Asso	82,902
BE	MN	Govt	WHITE EARTH	11499	PHS Institutional Support Fac	1998			62,704
BI	WY	Govt	ARAPAHOE	16181	PHS Indian Health Center	2003			17,407
BI	MT	Govt	BROWNING	11501	PHS Indian Hospital	2008	2001	DOE	260,060
BI	MT	Govt	CROW AGENCY	11502	PHS Indian Hospital	2003	1982	ROFEC	164,353
BI	WY	Govt	FORT WASHAKIE	11556	PHS Institutional Support Fac	2003	1994	Eng Services	31,489
BI	MT	Govt	HARLEM	11503	PHS Indian Hospital-FT	2004			99,539
BI	MT	Govt	HAYS	12665	PHS Indian Health Center	2004			30,979
BI	MT	Govt	HEART BUTTE	16175	PHS Indian Health Center	2005	1982	ROFEC	9,002
BI	MT	Govt	LAME DEER	11504	PHS Institutional Support Fac	2005	1982	ROFEC VIII	115,308
BI	MT	Govt	LODGE GRASS	37556	Quarters Compound	2003	1994	Eng Services	13,616
BI	MT	Govt	POPLAR	11505	PHS Institutional Support Fac	2004			23,472
BI	MT	Govt	PRYOR	14673	PHS Indian Health Center	2003	1982	ROFEC	19,597
BI	MT	Govt	ROCKY BOYS	12679	PHS Institutional Support Fac	2005			13,441
BI	MT	Govt	WOLF POINT	20146	PHS Indian Health Center	2004			20,610
BI	MT	Govt	LODGE GRASS	03215	IHS HEALTH CLINIC & LAND	2000	1994	Eng Services	
BI	MT	Tribe	POPLAR	BIFP1	TRIBAL HEALTH CENTER		1983	ROFEC VIII	28,643
NS	MS	Govt	CARTHAGE	32061	PHS Indian Health Station	2002			2,440
NS	NC	Govt	CHEROKEE	11521	PHS Indian Hospital	2002	1986	Garratech	93,116
NS	NC	Govt	CHEROKEE	41222	NASHVILLE AREA YRTC	2002			13,331
NS	NC	Govt	CHEROKEE	41223	NASHVILLE AREA ADMINISTRATION	2002			2,400
NS	MS	Govt	PHILADELPHIA	11500	PHS Institutional Support Fac	2002			6,572
NS	MS	Govt	PHILADELPHIA	32070	PHS Indian Hospital	2002	1986	Energy Services	58,048
NV	AZ	Govt	CHINLE	11468	PHS Indian Hospital	1999	1979	HEMSLEY LEE	381,590
NV	NM	Govt	CROWNPOINT PUEB PINT	11511	PHS Indian Hospital	1997			210,919

NV	NM	Govt	CROWNPOINT PUEB PINT	11980	PHS Indian Health Station	1997			5,205
NV	AZ	Govt	DENNEHOTSO	15381	PHS Indian Health Station		1983	ROFEC IX	1,262
NV	NM	Govt	FORT WINGATE	20399	PHS Indian Health Center	1999			7,656
NV	NM	Govt	GALLUP	11969	PHS Indian Medical Center	1998			264,743
NV	AZ	Govt	GREASEWOOD	20393	PHS Indian Health Station		1979	ROFEC IX	2,526
NV	AZ	Govt	HOTEVILLA DINNEBITO	19718	PHS Indian Health Station		1979	HEMSLEY LEE	1,262
NV	NM	Govt	HUERFANO (NAGEEZI)	35775	PHS Indian Health Center	1999			37,306
NV	AZ	Govt	INSCRIPTION HOUSE	35774	PHS Indian Health Center	1999			53,005
NV	AZ	Govt	KAYENTA	11974	PHS Indian Health Center	1999	1979	HEMSLEY LEE	84,819
NV	AZ	Govt	MANY FARMS ROUGH ROCK	16171	PHS Indian Health Center	1999	1979	HEMSLEY LEE	29,436
NV	AZ	Govt	PINON	11976	PHS Indian Health Station	1999	1979	HEMSLEY LEE	6,737
NV	NM	Govt	SHIPROCK	11517	PHS Institutional Support Fac	1999			142,389
NV	AZ	Govt	TSAILE	37554	PHS Indian Health Center	1999			57,543
NV	AZ	Govt	TUBA CITY	11483	PHS Indian Hospital	1998			532,377
NV	AZ	Govt	WINDOW ROCK	11485	PHS Institutional Support Fac		1983	ROFEC IX	50,321
NV	AZ	Govt	WINSLOW	11486	PHS Indian Health Center	2000			48,982
OK	OK	Govt	ANADARKO	37552	PHS Indian Health Center	2003	1996	2003 Audit from a DOE	20,000
OK	OK	Govt	CLAREMORE	11528	PHS Indian Hospital	2003	1980	ROFEC IV	109,727
OK	OK	Govt	CLINTON	11529	PHS Indian Hospital	2004	1985	FKW, Inc A&E	41,077
OK	KS	Govt	LAWRENCE	11493	PHS Indian School Health Ctr	2004			16,992
OK	OK	Govt	LAWTON	11533	PHS Indian Hospital	2003	1995	2003 Audit from a DOE	90,313
OK	OK	Govt	PAWNEE	11534	PHS Indian Health Center		1996	OK Energy An	28,137
OK	OK	Govt	TAHLEQUAH	11537	PHS Institutional Support Fac	2003			9,410
OK	OK	Govt	TAHLEQUAH	37553	W W HASTING HOSPITAL	2003	1995	OK Energy An	147,831
OK	OK	Govt	TALIHINA	11536	PHS Institutional Support Fac	1997	1985	CONSULTANT	157,730

OK	OK	Govt	ADA	03352	CARL ALBERT INDIAN HOSPITAL		1985	FKW, Inc A&E	2,690
OK	OK	Govt	PAWHUSKA	03054	IHS INDIAN HEALTH CENTER		1985	FKW, Inc A&E	
PH	AZ	Govt	CIBECUE	33113	PHS Indian Health Center		1983	ROFEC IX	13,100
PH	UT	Govt	FORT DUCHESNE	11550	PHS Indian Health Center	2001	2001	EME GROUP	28,616
PH	AZ	Govt	LAVEEN	12676	PHS Indian Health Center	2006			2,900
PH	NV	Govt	MCDERMITT	33114	PHS Indian Health Center		1983	ROFEC IX	2,590
PH	NV	Govt	OWYHEE	11507	PHS Indian Hospital	2001	2001	EME GROUP	87,674
PH	AZ	Govt	PARKER	11472	PHS Indian Hospital	2007	1982	ROFEC IX	130,029
PH	AZ	Govt	PEACH SPRINGS	11975	PHS Indian Health Center	2007			23,346
PH	AZ	Govt	PHOENIX	11473	PHS Indian Medical Center	2001	2001	EME GROUP	271,641
PH	AZ	Govt	SACATON	11475	PHS Indian Hospital	2006			145,020
PH	AZ	Govt	SACATON	41216	GILA RIVER YRTC	2006			39,561
PH	AZ	Govt	SAN CARLOS	11477	PHS Indian Hospital	2001	2001	EME GROUP	92,963
PH	AZ	Govt	SUPAI CANYON	37565	PHS Indian Health Station	2007			5,744
PH	AZ	Govt	WHITERIVER	11484	PHS Indian Hospital	2001	2001	EME GROUP	247,830
PH	CA	Govt	WINTERHAVEN	11488	PHS Indian Hospital	2005	1982	ROFEC IX	21,766
PO	WA	Govt	BELLINGHAM	37567	PHS Indian Health Center		1992	Contractor	792
PO	OR	Govt	CHEMAWA (Salem)	11540	PHS Indian Health Center	2003	1992	ES-S	23,124
PO	ID	Govt	FORT HALL	11491	PHS Indian Health Center	2003	1994	ES-S	31,076
PO	ID	Govt	LAPWAI	20944	PHS Indian Health Center		1997	ES-S	10,168
PO	WA	Govt	NEAH BAY	30067	PHS Indian Health Center	2003	1996	ES-S	22,809
PO	WA	Govt	NESPELEM	11551	PHS Indian Health Center	2006	1997	ES-S	24,410
PO	WA	Govt	SPOKANE	41217	HEALING LODGE OF THE SEVEN	2005	1995	ES	31,000
PO	WA	Govt	TACOMA	35776	PHS Indian Health Center	2002	1992	ES-S	91,676
PO	WA	Govt	TAHOLAH	20611	PHS Indian Health Center		1992	ES-S	10,883

PO	WA	Govt	TOPPENISH	19712	PHS Indian Health Center	2004	1994	ES-S	53,452
PO	WA	Govt	TULALIP	37569	TULALIP DENTAL CLINIC	2003	1993	Bldg Manufacturer	1,960
PO	OR	Govt	WARM SPRINGS	11542	PHS Indian Health Center	2007	1997	ES-S	12,058
PO	WA	Govt	WELLPINIT	11553	PHS Indian Health Center	2010	2000	ES-S, New Const in 2000	26,024
PO	OR	Govt	WARM SPRINGS	03306	IHS IND HEALTH CENTER	2007	1997		
PO	WA	Tribe	AUBURN	37566	MUCKLESHOOT IHS DENTAL	2003	1993	Bldg Manufacturer	480
PO	WA	Tribe	AUBURN	PO030	MUCKLESHOOT TRIBAL HEALTH	2050			45,332
PO	WA	Tribe	BELLINGHAM	PO300	LUMMI BUSINESS COUNCIL	2004	1994		17,431
PO	OR	Tribe	CHILOQUIN	41124	CHILOQUIN IHS DENTAL CLINIC		1992	Bldg Manufacturer	1,800
PO	OR	Tribe	CHILOQUIN	PO16A	CHILOQUIN TRIBAL HEALTH	2050			19,760
PO	OR	Tribe	COOS BAY	PO230	COQUILLE TRIBAL HEALTH CENTER	2050			15,079
PO	WA	Tribe	ELMA	PO08A	SQUAXIN ISLAND - ELMA GRP HOME	2050			13,441
PO	WA	Tribe	EVERSON	PO140	NOOKSACK TRIBAL HEALTH	2050			10,813
PO	ID	Tribe	FORT HALL	PO460	SHOSHONE-BANNOCK A/SA	2050			22,006
PO	OR	Tribe	GRANDE RONDE	PO120	GRAND RONDE HEALTH CENTER	2050			30,552
PO	WA	Tribe	INCHELIUM	PO18A	COLVILLE TRIBAL HCTR-INCHELIUM	2050			26,534
PO	WA	Tribe	KINGSTON	PO050	PORT GAMBLE HEALTH CENTER	2050			15,039
PO	OR	Tribe	KLAMATH FALLS	PO160	KLAMATH FALLS HEALTH ADMIN	2050			12,794
PO	WA	Tribe	LA CONNER	PO370	SWINOMISH INDIAN SENATE	2050			10,899
PO	ID	Tribe	LAPWAI	PO320	NEZ PERCE A/SA CENTER	2007	1997		25,382
PO	WA	Tribe	MARYSVILLE	PO470	TULALIP TRIBAL HEALTH CENTER	2050			44,269
PO	OR	Tribe	PENDLETON	PO380	UMATILLA TRIBAL HEALTH CENTER	2050			26,948
PO	ID	Tribe	PLUMMER	PO190	BENEWAH TRIBAL HEALTH CENTER	2050			64,333
PO	WA	Tribe	QUEETS	20610	PHS Indian Health Station	0	0	Bldg TX to Tribe 2000	2,204
PO	OR	Tribe	SALEM	PO430	NANITCH SAHALLIE	2050			18,723

PO	OR	Tribe	SILETZ	PO130	SILETZ TRIBAL HEALTH CLINIC	2050			21,498
PO	WA	Tribe	TACOMA	PO450	PUYALLUP TRIBAL HEALTH	2012	2002	Tacoma Light and Power	39,093
PO	WA	Tribe	TAHOLAH	PO330	QUINULT MENTAL HEALTH	2050			28,869
PO	OR	Tribe	WARM SPRINGS	PO220	WARM SPRINGS TRIBAL A/SA CTR	2050			11,314
TU	AZ	Govt	SAN XAVIER	11479	PHS Tucson Area Office	2004	1982	ROFEC IX	54,764
TU	AZ	Govt	SELLS SANTA ROSA	11478	PHS Indian Health Center	2004	1982	ROFEC IX	3,733
TU	AZ	Govt	SELLS SANTA ROSA	11482	PHS Indian Hospital	2004	1991	Harrington	150,761

FY 2003 Annual Energy Implementation Report

I. Management and Administration

A. Energy Management Infrastructure

- 1. Senior Agency Official:** The senior Agency Official is the Director, Division of Facilities Operations. This person supervises the Agency's Energy Coordinator.
- 2. The Agency Energy Team** consists of 12 Area Offices (Aberdeen, Albuquerque, Alaska, Bemidji, Billings, California, Nashville, Navajo, Oklahoma, Portland, Phoenix, Tucson) and 2 Regional Offices (Engineering Service (ES) in Dallas and Seattle). The 12 Area Offices and 2 Engineering Services Offices each have a designated Energy Coordinator who is supervised by the Area Facility Engineers or ES Directors.
- 3. Area Office Energy Program:** Identify the structure of the Area's centralized energy program and how efforts are coordinated, facilitated, and information is disseminated. List special aspects of the program such as energy awareness campaigns, training, or other coordinated efforts to reduce energy and water consumption. If an Energy Team exists, list members of the team and describe the team's responsibilities. This may be the energy coordinator and direct coworkers or a group of facility managers.

B. Management Tools

- 1. Awards:** Describe the Area's use of employee incentive programs to reward exceptional performance in implementing Executive Order 13123.

Albuquerque -- Employees and Service Units will continue to be recognized for their efforts in implementing the executive order and for overall performance. The area director's awards program will also continue to be used as a tool for recognizing HF employees.

- 2. Performance Evaluations:** Describe Area's efforts to include successful implementation of the requirements of Executive Order 13123 concerning the position descriptions and performance evaluations of senior energy officials, members of the OPDIV energy team, heads of field offices, and energy managers.

Aberdeen -- The Area Office mechanical engineer is responsible for energy management activities as stated in his job description and it is part of his annual performance evaluation. This will continue in FY 2003.

Albuquerque -- The area will review the requirements to determine changes in future evaluations.

- 3. Training Education:** Describe activities undertaken to ensure that all appropriate personnel receive training for energy management requirements. Describe Area outreach programs that include education, training, and promotion of Energy Star® and other energy efficient products for Federal purchase card users. Highlight specific training courses attended by Area personnel.

Aberdeen -- Training and education for energy management will occur in FY 2003 in conjunction with the ESPC measurement and verification of energy reductions at Area facilities. The ESPC contractor, Johnson Controls Inc., will be investigating further energy savings opportunities at Area facilities for consideration.

Albuquerque -- The area will continue to provide energy management sessions at the annual workshops. Individual training will continue to be provided as necessary.

Tucson -- Training needs are re-assessed continually and training plans submitted annually. Specific courses included HVAC, appliance, and furnace servicing.

4. Showcase Facilities: Highlight exemplary new or existing facilities that HHS should consider for DOE Federal Energy Saver Showcase Facilities in FY 2000. Describe why the facilities should be considered Showcase Facilities (i.e., discuss the facility design, the improvements made in energy or water efficiency, the use of renewable energy, etc.).

Showcase facilities will be identified and recommended for recognition if applicable.

III. Implementation Strategies

A. Life-Cycle Cost Analysis. Outline procedures in place to ensure the use of life-cycle cost analysis in making investment decisions about in products, services, construction, and other projects to lower the Federal Government's costs and to reduce energy and water consumption. Highlight examples where life-cycle cost analysis was used in capital budgeting decisions concerning energy efficiency. Report on the successes and challenges of implementing life-cycle cost effective projects. (Under EPACT, energy conservation projects that will pay back investment costs within 10 years must be undertaken.)

Aberdeen -- The ESPC included energy savings projects at nine Area facilities. These projects have been analyzed and included in the ESPC to save energy with excellent pay back times.

Alaska -- Life cycle cost analysis is a required element for evaluation of all potential energy projects or ECM's. The 10-year simple payback is a go no-go decision tool and the Life cycle cost is used to prioritize the best use of funding. THE AHFAC funding criteria requires this method of project evaluation prior to releasing funds for an energy project.

Albuquerque -- Life cycle cost analysis has been used on major projects. A majority of the smaller projects have included requirements for energy efficient equipment and components.

Tucson -- Tucson Area is in the process of having a facilities condition assessment conducted. The assessment will aid in capital budgeting decisions with respect to life-cycle cost.

B. Facility Energy Audits: See Attachment E - The IHS Energy Audit Trail, for a detailed listing of the facilities audit plan.

C. Financing Mechanisms. Provide narrative information related to the use of Energy-Savings Performance Contracts (ESPCs) and Utility Energy Services Contracts (UESCs). Describe all contracts signed, in process, or under investigation and the projects planned for completion.

Report funding requested and received for FY 2000 and funding requested for FY 2001 for the performance of energy surveys/audits and for applied energy conservation measures.

Aberdeen -- The Area ESPC with Johnson Controls Inc. is a 15 year contract beginning on October 1, 1001. The initial first year investment by Johnson Controls Inc. is nearly \$2,000,000 to upgrade HVAC equipment and control systems at six locations and lighting retrofits at nine locations. The energy savings at these locations is estimated at 23%.

Oklahoma City -- We plan to use the DOE Super ESPC contract in FY03 for 2 I.H.S. hospitals and 4 Cherokee Nation health centers.

Tucson -- The Tucson Area applied for joint funding from the DOE for an energy audit. The proposal was denied due to lack of funding. Other means of additional funding will be investigated.

D. Energy Star® and Other Energy-Efficient Products. Describe steps taken to promote the purchase of Energy Star® products and/or products that are in the upper 25 percent of energy efficiency as designated by FEMP. Note whether energy efficient criteria have been incorporated into all guide specifications and product specifications developed for new construction and renovation. Also note whether such criteria have been incorporated into product specification language. (See the Energy Star® products and “green” products web sites by GSA [www.fss.gsa.gov/environ], DOE www.eren.doe.gov/femp/procurement/begin.html]

Alaska -- ANTHC engineers work with the RHO's Facility managers to evaluate project specifications and purchases to insure the most energy efficient models are considered in the procurement process.

Albuquerque -- The area will continue to encourage all staff to consider energy efficiency when procuring and specifying products for construction and renovation.

Phoenix -- With all new projects, procurement of Energy Star and other energy efficient products are incorporated into specifications.

Tucson -- Energy Star products are reviewed for all maintenance and project activities.

E. Energy Star® Buildings. Report the number and percentage of buildings that have met the Energy Star® Building criteria and have officially been designated Energy Star® Buildings. (Buildings must rank in the top 25 percent in energy efficiency relative to comparable commercial and Federal buildings to be eligible for the Energy Star® Buildings designation. See www.epa.gov/buildings/label.)

Albuquerque -- The area will provide further data for the Albuquerque Indian Hospital to determine its eligibility for designation as an energy star building.

Tucson -- The Sells Hospital scored an 85 on the EPA Energy Star Building scoring system. A designation has been requested. Other buildings will be reviewed for submission.

F. Sustainable Building Design. Report whether sustainable building design principles have been incorporated into the siting, design, and construction of new facilities. (See www.wbdg.org for a description of sustainable building design principles.)

Aberdeen -- Sustainable building design principles will be considered for future new buildings.

Albuquerque -- Staff will be encouraged to utilize all applicable guidelines and principles regarding energy efficiency into the siting, design, and construction of new facilities.

Oklahoma City -- We are advocating in FY03 for compliance with ASHRAE/IESNA Standard 90.1-1999 (Energy Standard for Buildings Except Low-Rise Residential Buildings) and its Addendum J which took effect Oct. 29, 2001.

Tucson -- Sustainable design principles are applied to projects to include renovations and new construction.

G. Energy Efficiency in Lease Provisions. Describe how energy and water efficiency are considered when OPDIVs enter into new leases or renegotiate/extend existing leases (e.g., preference for buildings with sustainable design and development, preference for certified Energy Star® Buildings, etc.).

Albuquerque -- Energy and water efficiency will continue to be considered when renegotiating or extending leases.

H. Energy-Intensive Facility Efficiency Improvements. Highlight activities undertaken to explore efficiency opportunities in energy-intensive facilities. This may include activity in the following areas: steam systems, boiler operation, air compressor systems, industrial processes, fuel switching, cogeneration, and other efficiency and renewable energy technologies.

Aberdeen -- Energy efficiency opportunities will be considered in all related construction projects and equipment replacements beginning in FY 2002. The ESPC contractor will also be researching energy efficiency opportunities for consideration.

Albuquerque -- The service units will be encouraged to explore projects for energy efficiency versus routine repairs/preventive maintenance and to coordinate those opportunities with the area.

I. Highly Efficient Systems. Describe new construction and/or retrofit projects for which combined cooling, heating, and power systems were installed. Report whether local natural resources were surveyed to optimize use of available biomass, geothermal, or other naturally occurring energy sources.

Alaska -- A ground water cooling project is currently in construction for the Alaska Native Medical Center in Anchorage. A test well verified flow rates. Construction has moved forward and project permitting is complete. This project is anticipated to be complete and operational FY03.

Albuquerque -- Projects to improve the efficiency of existing systems will continue to be pursued.

J. Off-Grid Generation. Describe the installation of new solar hot water, solar electric, solar outdoor lighting, small wind turbines, fuel cells, and other off-grid alternatives.

Alaska -- YKHC is pursuing a feasibility study for a wind turbine application at the Bethel Hospital and other Yukon Delta community clinics. ANTHC Area Energy Coordinator is assisting in the technical and economic analysis and planning for anticipated project(s).

Albuquerque -- Will continue to take advantage of alternative systems where applicable.

K. Renewable Energy Purchases. Describe agency plans to encourage the purchase of electricity and thermal energy generated from renewable sources.

No information to report.

L. Electrical Load Reduction Measures. Describe your plans for electrical load reduction that will be taken during power emergencies to cut electricity consumption its buildings and facilities.

Alaska -- Most facilities in Alaska have automatic load management systems to address load reduction during electrical outages/emergencies. Specific measures were implemented at ANMC to reduce non-essential loads to further reduce the peak load of the facility. Similar techniques were accomplished at other hospital locations as well. The DDC systems assist with non-emergency load management also.

Albuquerque -- The area will assist the service units during emergencies. Service unit plans will be reviewed to ensure appropriateness and update as needed.

Oklahoma City -- We plan to investigate opportunities for this prior to the FY03 cooling season.

Phoenix -- The area office will alert all service units within the area when energy reduction is needed. The service units will load the emergency generators, adjust thermostats, shut down all unnecessary and nonessential equipments, turn off lights, etc.

M. Water Conservation. Highlight activities undertaken to improve water efficiency. Discuss progress in developing and implementing Water Management Plans for efficient use of water.

Alaska -- Energy audits recently conducted at six of the seven hospitals identified energy conservation measures (ECM's) to include addressing water conservation. ECM's are then bundled together with other projects and accomplished.

Albuquerque -- Will perform assessment and work with the service units to determine possible projects and improvements.

Tucson -- The facilities are replacing outdated toilets, faucets, showerheads and other devices with water saving products. The facilities are reviewing watering schedules and desert landscaping to reduce water consumption.